

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/US2004/023726

A. CLASSIFICATION OF SUBJECT MATTER

 IPC 7 C07D271/10 C07D249/08 C07D413/04 C07D239/88 C07D213/82
 C07D239/42 C07D239/82 C07D239/74

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2004/089874 A1 (SMITHKLINE BEECHAM CORPORATION; ASTON, NICOLA, MARY; BAMBOROUGH, PAUL;) 21 October 2004 (2004-10-21) claims 1-15	1-61
E	WO 2004/089876 A1 (SMITHKLINE BEECHAM CORPORATION; ASTON, NICOLA, MARY) 21 October 2004 (2004-10-21) page 1 - page 3, line 23; example 4	1-61
P, X	WO 03/093248 A1 (SMITHKLINE BEECHAM CORPORATION; ANGELL, RICHARD, MARTYN; BAMBOROUGH, P) 13 November 2003 (2003-11-13) page 1 - page 2; examples 5-27, 29-31, 33-35, 38-81	1-61

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

28 January 2005

Date of mailing of the international search report

08/02/2005

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Kyriakakou, G

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 03/068747 A1 (SMITHKLINE BEECHAM CORPORATION; ASTON, NICOLA, MARY; BAMBOROUGH, PAUL;) 21 August 2003 (2003-08-21) examples 1,3-123 -----	1-61
Y	WO 03/033482 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; BAMBOROUGH, PAUL; COCKER) 24 April 2003 (2003-04-24) page 1 - page 4, line 8; examples 1-44 -----	1-61
Y	WO 03/033483 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; ASTON, NICOLA, MARY; BAM) 24 April 2003 (2003-04-24) page 1, line 22 - page 5; examples 1-72 -----	1-61
Y	WO 03/033457 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; ASTON, NICOLA, MARY; BAM) 24 April 2003 (2003-04-24) cited in the application page 1 - page 5, line 32 -----	1-61
Y	WO 03/032986 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; BAMBOROUGH, PAUL; COCKER) 24 April 2003 (2003-04-24) cited in the application page 1 - page 4, line 35 -----	1-61
Y	WO 03/032980 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; ASTON, NICOLA, MARY; BAM) 24 April 2003 (2003-04-24) cited in the application page 1 - page 5, line 3 -----	1-61
Y	WO 03/032972 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; ASTON, NICOLA, MARY; BAM) 24 April 2003 (2003-04-24) cited in the application page 1 - page 5, line 15 -----	1-61
Y	WO 03/032971 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; ASTON, NICOLA, MARY; BAM) 24 April 2003 (2003-04-24) cited in the application page 1 - page 6; examples 1-79 -----	1-61
Y	WO 03/032970 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; ASTON, NICOLA, MARY; BAM) 24 April 2003 (2003-04-24) cited in the application page 1 - page 6, line 25 -----	1-61
Y	WO 03/032987 A1 (GLAXO GROUP LIMITED; ANGELL, RICHARD, MARTYN; BAMBOROUGH, PAUL; COCKER) 24 April 2003 (2003-04-24) page 1 - page 3, line 25 -----	1-61

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 38-53 and 58-61 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 38-53 and 58-61 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004089874	A1	21-10-2004	NONE	
WO 2004089876	A1	21-10-2004	NONE	
WO 03093248	A1	13-11-2003	EP 1499600 A1	26-01-2005
WO 03068747	A1	21-08-2003	BR 0307351 A CA 2474192 A1 EP 1474395 A1	14-12-2004 21-08-2003 10-11-2004
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WO 03032986	A1	24-04-2003	EP 1435949 A1 US 2004266839 A1	14-07-2004 30-12-2004
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WO 03032971	A1	24-04-2003	EP 1435934 A1 US 2004242868 A1	14-07-2004 02-12-2004
WO 03032970	A1	24-04-2003	EP 1435933 A1	14-07-2004
WO 03032987	A1	24-04-2003	EP 1435950 A1	14-07-2004